



SAFETY DATA SHEET (SDS)

Prepared in accordance with the Globally Harmonized System (GHS) and Regulation (EC) No. 2020/878 (REACH, as amended)

Heliotropex N®

SECTION 1: IDENTIFICATION

1.1 Product Identifier

Parameter	Details
Product Name	Heliotropex N®
Product Form	Mixture
Product Type	Proprietary fragrance base
Complete Product CAS Number	Not assigned; mixture
Piperonal CAS Number	120-57-0
Piperonal EC Number	204-409-7
UFI in Referenced EU SDS	YTAH-VK1U-942W-QRGK
Referenced Supplier Product Code	23109
Recommended Use	Fragrance raw material
Grade	Professional perfumery grade

The referenced SDS identifies Heliotropex N as a mixture intended for professional and consumer fragrance applications.

1.2 Recommended Uses

- Fine-fragrance formulation
- Heliotrope and powdery-floral accords
- Almond, cherry and berry accords
- Vanilla, balsamic and amber compositions
- Soap, shampoo and personal-care fragrances
- Detergent and fabric-care fragrances
- Home-fragrance products

1.3 Uses Advised Against

- Internal consumption
- Food, feed or flavour use
- Oral-care products
- Pharmaceutical use
- Direct undiluted skin application
- Use as a finished consumer product



- Use contrary to applicable IFRA requirements

1.4 Supplier

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1.5 Manufacturer

International Flavors & Fragrances Inc. – IFF

SECTION 2: HAZARDS IDENTIFICATION

2.1 CLP/GHS Classification

Hazard Class	Classification
Skin Sensitisation	Category 1
Reproductive Toxicity	Category 2

Signal Word

Warning

Hazard Pictograms

- GHS07 – Exclamation mark
- GHS08 – Health hazard

Hazard Statements

- H317: May cause an allergic skin reaction.
- H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child.

The available SDS assigns Skin Sensitisation Category 1 and Reproductive Toxicity Category 2 to the complete mixture.

Precautionary Statements

- P201: Obtain special instructions before use.
- P202: Do not handle until all safety precautions have been read and understood.
- P261: Avoid breathing vapours, fumes or spray.
- P280: Wear protective gloves, protective clothing and face protection.
- P302+P352: IF ON SKIN: Wash with plenty of soap and water.



- P308+P313: IF exposed or concerned: Get medical advice.
- P333+P313: If skin irritation or rash occurs: Get medical advice.
- P362+P364: Remove contaminated clothing and wash it before reuse.
- P405: Store locked up.
- P501: Dispose of contents and container through an authorised waste facility.

SECTION 3: COMPOSITION/INFORMATION ON INGREDIENTS

3.1 Mixture

Ingredient	CAS Number	Representative Concentration	Classification
3,4-Dimethoxybenzaldehyde	120-14-9	10–20%	Acute Tox. 4 oral; Skin Sens. 1
4-Methoxybenzaldehyde	123-11-5	3–10%	Aquatic Chronic 3
Piperonal / Heliotropin	120-57-0	3–10%	Skin Sens. 1; Repr. 2
Isoeugenol	97-54-1	0.01–1%	Acute toxicity; irritation; sensitisation; STOT SE 3
Cinnamyl Alcohol	104-54-1	0.1–1%	Acute Tox. 4; Skin Sens. 1; Aquatic Chronic 2
4-Prop-1-enylveratrole	93-16-3	0.01–0.1%	Skin Sens. 1B

The cited 2026 SDS discloses these concentration ranges. The remaining formulation is proprietary.

3.2 Important Identity Statement

CAS 120-57-0 must not be used as the sole CAS number for Heliotropex N. It identifies only the piperonal component, which is present at approximately 3–10%. Pure piperonal is a crystalline substance with molecular formula $C_8H_6O_3$ and molecular weight approximately 150.13 g/mol, whereas Heliotropex N is a liquid mixture.

SECTION 4: FIRST-AID MEASURES

4.1 Inhalation

- Move the person to fresh air.
- Keep at rest and comfortable for breathing.
- Obtain medical advice if headache, nausea, coughing or discomfort persists.
- If breathing stops, trained personnel should provide artificial respiration.

4.2 Skin Contact

- Remove contaminated clothing.
- Wash thoroughly with soap and water.



- Do not clean the skin with solvents.
- Seek medical advice if irritation, itching or rash occurs.
- Wash contaminated clothing before reuse.

4.3 Eye Contact

- Rinse cautiously with water for at least 15 minutes.
- Remove contact lenses where easy to do.
- Continue rinsing.
- Obtain medical attention if irritation persists.

4.4 Ingestion

- Rinse the mouth.
- Do not induce vomiting unless instructed by medical personnel.
- Call a poison centre or physician if unwell.
- Never give anything orally to an unconscious person.

4.5 Important Symptoms

- Allergic skin rash
- Redness or itching
- Temporary eye discomfort
- Nausea or gastrointestinal discomfort
- Headache following excessive vapour exposure

SECTION 5: FIRE-FIGHTING MEASURES

5.1 Suitable Extinguishing Media

- Carbon dioxide
- Dry chemical powder
- Alcohol-resistant foam
- Water fog for cooling containers

5.2 Specific Hazards

The product is reported as non-flammable under CLP criteria, with a flash point of approximately 104°C. It may nevertheless burn when strongly heated.

Combustion may produce:

- Carbon monoxide
- Carbon dioxide
- Irritating aldehydic vapours
- Dense smoke
- Other organic decomposition products



5.3 Firefighter Protection

Wear:

- Self-contained breathing apparatus
- Full protective clothing
- Chemical-resistant gloves and footwear

SECTION 6: ACCIDENTAL RELEASE MEASURES

6.1 Personal Precautions

- Restrict access.
- Ventilate the area.
- Avoid breathing vapour or spray.
- Avoid skin and eye contact.
- Wear gloves, protective clothing and eye protection.
- Stop leakage where safe.

6.2 Environmental Precautions

- Avoid release into drains, soil and waterways.
- Contain significant spills.
- Notify authorities if environmental contamination occurs.

6.3 Cleanup

- Absorb with sand, earth, vermiculite or another inert material.
- Transfer to a labelled waste container.
- Wash residual contamination with detergent and water.
- Do not discharge cleaning water uncontrolled into drains.

SECTION 7: HANDLING AND STORAGE

7.1 Safe Handling

- Obtain special instructions before use.
- Use only with adequate ventilation.
- Avoid prolonged or repeated skin exposure.
- Avoid inhalation of mist or concentrated vapour.
- Wear suitable PPE.
- Do not eat, drink or smoke while handling.
- Wash hands after use.
- Keep the container closed when not in use.



7.2 Storage

Store:

- In the original tightly closed container
- In a cool, dry and ventilated area
- Protected from direct sunlight
- Away from excessive heat
- Away from oxidising materials
- In a locked chemical-storage location
- Away from food and beverages

SECTION 8: EXPOSURE CONTROLS/PERSONAL PROTECTION

8.1 Engineering Controls

- Provide good general ventilation.
- Use local extraction during bulk filling and blending.
- Provide eyewash and hand-washing facilities.
- Minimise spray and mist formation.

8.2 Personal Protective Equipment

Protection	Recommendation
Eyes	Safety glasses or chemical splash goggles
Hands	Nitrile, neoprene or butyl-rubber gloves
Body	Protective clothing or laboratory coat
Respiratory	Organic-vapour protection where ventilation is inadequate

The referenced SDS recommends safety glasses, protective gloves and suitable protective clothing; respiratory protection is advised where ventilation is inadequate.

8.3 Reproductive-Risk Controls

Because the mixture is classified Reproductive Toxicity Category 2:

- Limit exposure as far as reasonably achievable.
- Conduct a documented workplace risk assessment.
- Use closed transfer or local extraction where practical.
- Provide additional controls for pregnant workers and workers planning pregnancy according to applicable employment law.

SECTION 9: PHYSICAL AND CHEMICAL PROPERTIES

Property	Representative Information
Physical State	Liquid
Colour	Light yellow to light orange



Property	Representative Information
Odour	Sweet, powdery, balsamic, almond-like and heliotrope
Flash Point	Approximately 104 °C
Flammability	Non-flammable under stated classification
Relative Density	1.053–1.063
Water Solubility	Insoluble
pH	Not applicable
Boiling Point	Not available for complete mixture
Vapour Pressure	Not available in referenced SDS
Viscosity	Not available
Explosive Properties	Not applicable
Particle Characteristics	Not applicable

These physical properties are reported in the March 2026 SDS.

SECTION 10: STABILITY AND REACTIVITY

10.1 Reactivity

Non-reactive under normal conditions of storage, handling and transport.

10.2 Stability

Stable under normal recommended conditions.

10.3 Hazardous Reactions

No dangerous reactions are known under normal conditions of use.

10.4 Conditions to Avoid

No specific conditions beyond recommended storage and handling controls are identified.

10.5 Incompatible Materials

Avoid strong oxidising agents as a general chemical-handling precaution.

10.6 Hazardous Decomposition Products

No hazardous decomposition products are expected under normal storage and use. Fire may generate carbon oxides and irritating organic vapours.

SECTION 11: TOXICOLOGICAL INFORMATION

11.1 Acute Toxicity

Endpoint	Available Information
Complete Mixture Oral LD ₅₀	Greater than 2,000 mg/kg
Acute Oral Classification	Not classified
Acute Dermal Classification	Not classified
Acute Inhalation Classification	Not classified

11.2 Skin Irritation



The complete mixture is not classified for skin irritation, although individual ingredients may be irritating.

11.3 Eye Irritation

The complete mixture is not classified for eye irritation based on the cited SDS, but direct contact should be avoided.

11.4 Skin Sensitisation

May cause an allergic skin reaction.

The mixture contains several sensitising ingredients, including piperonal, isoeugenol, cinnamyl alcohol and dimethoxybenzaldehyde derivatives.

11.5 Reproductive Toxicity

Suspected of damaging fertility and the unborn child.

This classification applies to the complete mixture under the referenced March 2026 SDS.

11.6 Mutagenicity and Carcinogenicity

No complete-mixture classification is assigned in the referenced SDS.

11.7 Aspiration Hazard

Not classified.

SECTION 12: ECOLOGICAL INFORMATION

12.1 Ecotoxicity

The complete mixture is not classified as environmentally hazardous in the referenced 2026 SDS, although some individual ingredients have aquatic classifications.

12.2 Persistence and Degradability

Certain components, including 4-prop-1-enylveratrole and 3,4-dimethoxybenzaldehyde, are reported as not rapidly degradable.

12.3 Bioaccumulative Potential

No complete-mixture data are available.

12.4 Mobility in Soil

No data available.

12.5 PBT/vPvB Assessment

No PBT or vPvB component was identified at or above 0.1% in the referenced SDS.

12.6 Environmental Precautions

Avoid uncontrolled environmental release even though the complete mixture is not transport-classified as environmentally hazardous.



SECTION 13: DISPOSAL CONSIDERATIONS

- Dispose of product and packaging according to official regulations.
- Use an authorised or licensed waste collector.
- Do not discharge concentrated material into drains.
- Do not reuse contaminated empty containers.
- Empty packaging may retain fragrance residue.

SECTION 14: TRANSPORT INFORMATION

Transport Mode	Classification
ADR/RID	Not regulated
IMDG	Not regulated
IATA/ICAO	Not regulated
ADN	Not regulated
UN Number	Not applicable
Packing Group	Not applicable
Marine Pollutant	No under referenced transport classification

The March 2026 SDS identifies Heliotropex N as not regulated for road, rail, sea, air or inland-waterway transport.

SECTION 15: REGULATORY INFORMATION

15.1 EU Regulatory Status

The product is subject to applicable provisions of:

- REACH Regulation (EC) No. 1907/2006
- CLP Regulation (EC) No. 1272/2008
- Regulation (EU) 2020/878
- EU Cosmetics Regulation (EC) No. 1223/2009
- Regulation (EU) 2023/1545
- Applicable IFRA Standards

The referenced SDS reports:

- No substances on the REACH Annex XIV Authorisation List
- No substances on the REACH Candidate List
- No explosives-precursor substances
- Presence of a drug-precursor-listed substance because piperonal is included in the formulation.

15.2 Piperonal Regulatory Note



Piperonal, CAS 120-57-0, is a regulated drug precursor in certain jurisdictions. Storage, sale, documentation and cross-border shipment may require additional controls depending on quantity and destination.

15.3 Chemical Safety Assessment

No complete chemical safety assessment was carried out for the mixture in the referenced SDS.

SECTION 16: OTHER INFORMATION

16.1 Olfactive Description

Heliotropex N provides:

- Sweet heliotrope
- Almond and marzipan
- Powdery floral notes
- Cherry and berry nuances
- Vanilla-like warmth
- Balsamic and spicy undertones

16.2 Fragrance Allergens Identified on the Referenced Label

The referenced SDS lists fragrance-allergen concentrations including:

Allergen	Reported Value
Anethole	0.05%
Anise Alcohol	0.005%
Cinnamyl Alcohol	0.1%
Coumarin	0.01%
Isoeugenol	0.01%
Vanillin	0.015%

16.3 Hazard Statement Text

- H302: Harmful if swallowed.
- H312: Harmful in contact with skin.
- H315: Causes skin irritation.
- H317: May cause an allergic skin reaction.
- H319: Causes serious eye irritation.
- H332: Harmful if inhaled.
- H335: May cause respiratory irritation.
- H361fd: Suspected of damaging fertility. Suspected of damaging the unborn child.
- H411: Toxic to aquatic life with long-lasting effects.
- H412: Harmful to aquatic life with long-lasting effects.

Not all of these apply to the complete mixture; several apply only to ingredients listed in Section 3.



DISCLAIMER

This SDS is a representative supplier-style document prepared for Heliotropex N® – IFF using publicly available 2026 supplier safety information.

It is not:

- The original IFF-issued SDS
- A batch-specific IFF Certificate of Analysis
- An IFRA Certificate
- An EU allergen certificate
- Evidence of independent laboratory testing by Aromology Trading LLC

CAS 120-57-0 applies only to the piperonal component and must not be used as the sole identity of the complete Heliotropex N mixture.

Before formal workplace, customer or regulatory issue, verify this document against:

- The latest original IFF SDS
- Current IFF composition statement
- Original batch Certificate of Analysis
- Current IFRA certificate
- Current quantitative allergen declaration
- Destination-country precursor and chemical regulations

Authorised by:

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